

METHOD AND APPARATUS FOR REDUCING PEAK TO AVERAGE
POWER RATIO IN A MULTI-CARRIER MODULATION COMMUNICATION
SYSTEM

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ABSTRACT

Amplitude values of data samples of a multi-carrier modulation
signal are provided to a normalizer (306) that determines the maximum
10 amplitude value and divides all the amplitude values by the maximum
amplitude value to produce normalized amplitude values. The
normalized amplitude values are then amplified by a hybrid amplifier
(307) that amplifies smaller amplitudes linearly and larger amplitudes
non-linearly. This reduces amplitude variations resulting in a MCM
15 signal having a reduced peak to average power ratio (PAPR).